SMARTER BALANCER ASSESSMENT

Implications for Instruction: Part II

Smarter Balanced Item & Task Specifications as defined by the Mathematics Content Specifications:



Nichole Hall, SDE Assessment Coordinator NancyThomas Price, Formative/Interim Assessment Coordinator



Webpages we will be visiting: Smarter Balanced Item Specifications

http://www.smarterbalanced.org/smarter-balanced-assessments/



Webpages we will be visiting:Smarter Balanced: Newly Released Items & Performance Tasks

http://www.smarterbalanced.org/sample-items-and-performance-



Documents we will be using: Common Core State Standards for Mathematics SBAC Draft Math Content **Specifications** http://www.smarterbalanced.org/wordpress/wp-content/uploads/2011/12/Math-Content-Specifications.pdf Mathematics **Item Specifications from Smarter Balanced** website

Item Specifications – Claim 1 http://www.smarterbalanced.org/smarter-balanced-asset Grade 6 Mathematics Item Specification C1 TD Assessment Target – Content Specifications

Grade 6 Math. Cl. TD
Claim 1. Concepts and Procedures
Li Concepts and Concepts and Concepts and Concepts and Concepts
Li Concepts I Concepts
Li Concepts I Concepts
Li Concept

Ordinate. Standards: 6.NS.5, 6.NS.6, 6.NS.7, 6.NS.8

DOX Target(5): 1, 2

Evidence Required: 1. The student locates and positions integers and other rational numbers on a number line.

The student represents the absolute value of a rational

Item Specifications: Claim 1	
Tanges E, r, and us.	
Standards: 6.6.1, 6.6.2, 6.6.3, 6.6.4 DOK Targe(s): 1, 2 Evidence Required: 1. The student determines the area of triangles, special quadriterates, and polygons using composition and decomposition in solving real-world and mathematical problems.	
 The student determines the volume of right rectangular prisms with fractional edge lengths in solving real-world and mathematical problems. 	
The student identifies nets of three-dimensional figures in the context of solving real-world and mathematical problems.	
 The student determines the surface area of three-dimensional figures formed by nets of polygons in the context of solving real-world and mathematical problems. 	
 The student draws polygons in the coordinate plane, given coordinates for the vertices in the context of solving real- world and mathematical problems. 	
 The student determines the length of a side of a polygon in the coordinate plane, given coordinates for the vertices in the context of solving read-world and mathematical problems. 	
 The student determines one or more missing occuliation in the conditional plane that would consider the deadering of a polygon in the context of solving real-world and methematical problems. 	
>	
Item Specifications: Claim 1	
 CR (DOK 2) Prompt Features: The student is prompted to use composition and decomposition to determine the areas of triangles, special 	
quadrilaterais, and polygons in solving real-world and mathematical problems. Seesand with a real-world or mathematical problem involving composition or decomposition of a triangle, special quadrilateral, or other polygon.	
a triangle, special quadrilateral, or other polygon. 2. SR (DOK 1, 2) Prompt Features: The student is prompted to identify the	
2. SR (DOK 1, 2) Prompt Teatures: The student is prompted to identify the Prompt Teatures: The student is prompted to identify the of the appropriate unit Traction edge lengths. Or the student is prompted to identify the volume of a right rectangular prism by applying the formulas V = hard and V = bh. Stimulas: The student is presented with a right rectangular prism but prism with inactional edge lengths.	
Stimulus: The student is presented with a right rectangular prism with fractional edge lengths. 2. CR (DOK 1, 2)	
2. CR, (DOK: 1, 2). The student is prompted to determine the volume of a right rectangular prism by packing it with unit cubes of the appropriate unit fraction edge lengths. Or the student is prompted to determine the volume of a right rectangular prism Stimulss: The student is presented with a right rectangular prism Stimulss: The student is presented with a right rectangular prism with fractional edge lengths.	
3. SR (DOK 2) Prompt features: The student is prompted to identify the three-dimensional ligner that would be formed from a net. three-dimensional ligner that would be formed from a net. Grant conditional control of the formed from a net. In the conditional control of the formed from the formed formed formed for the formed f	
rectandes, triangles, or a combination of the two in the context	
Itam Transa	
Item Types	
▶SR – Selected Response	
CR – Constructed Response	
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►ER – Extended Response	
▶PT – Performance Task	
▶TE – Technology Enhanced	
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V	arious	Item	Types:	Conr	necting	Content	: &s	Practice

Content & Procedures

- Selected Response
- Constructed
 Response
- Technology Enhanced

Demonstrating, Modeling & Explaining

- Extended Response
- Performance Task
- May be enhanced with technology

Item Specifications - Claims 2, 3, & 4

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Item	× 1	1001110	コナハカカロ	- Claims	٠,	≺ .	XT.	4
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http://www.smarterbalanced.org/smarter-balanced-assessments/



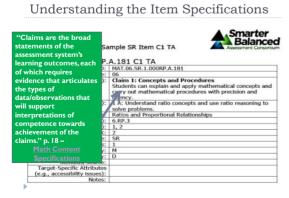
Item Specifications – Claims 2, 3, & 4	
http://www.smarterbalanced.org/smarter-balanced-assessments/	
Grade 6 Math Claim 2	
Printary Claim 2 Protection Solving and problems in pure and applied mathematics, making productive use of knowledge and problem-solving strategies. Secondary Claim(s): Items/tasks written primarily to assess Claim 2 will necessarily involve some Claim 1 content trapets, Related Claim 1 trapets should be listed below the Claim 2 those following the Claim 1 targets in order of premisended by related to the tenutusel, but those following the Claim 1 targets in order of premisended as having a primary, or primary Content Domain: Each tenutusely should be classified as having a primary, or	
dominant, content focus. The content should draw upon the knowledge and skills articulated in the progression of standards leading up to Grade of the standard standard of the Secondary Content Domain(s): While tasks developed to assess Claim 2 will have a primary content focus, components of these tasks will likely produce enough evidence for other	
content domains that a separate isoting of these content domains will need to be included where appropriate. In the property of the property	
Target A: Apply mathematics to solve well-posed problems arising in everyday life, society, and the workplace. (DOX 2, 3) Under claim 2, the problems should be completely formulated, and students should be asked to find a solution path from among their readily available tools.	
Item Specifications – Claims 2, 3, & 4	
http://www.smarterbalanced.org/smarter-balanced-assessments/	<u></u>
Claim 2 Battonuls: Mathematical Practice 1: Make sense of problems and persevere in solving them. Mathematically proficient students: explain to themselves the meaning of a problem and look for analyze givens, constraints, relationships, and goals, make conjectures about the form and meaning of the solution	
attempt. plan a solution pathway rather than simply jump into a solution. consider analogous problems and try special cases and simpler forms of insight into the solutions.	
 monitor and evaluate their progress and change course if necessary. transform algebraic expressions or change the viewing window on their graphing calculator to get information. explain correspondences between equations, verbal descriptions, tables, and graphs. 	
 draw diagrams of important features and relationships, graph data, and search for regularity or trends. use concrete objects or pictures to help conceptualize and solve a problem. check their answers to problems using a different method. 	
·	
Item Specifications – Claims 2, 3, & 4	
http://www.smarterbalanced.org/smarter-balanced-assessments/	
slope as they repeatedly check whether the points are on the line through (1, 2) with a slope 3. maintain oversight of the process of solving a problem, while attending to the details. continually evaluate the reasonableness of intermediate results.	
Allowable Item Types*: Task Models: When the third is the third is the state of the third is the state of the third is the state of the	
Design problems. These are well-posed problems within a real- or fantasy-world context where the student must find an approach, choose which mathematical tools to use, carry the solution through, and explain the results.	
Planning problems. Planning problems involve the coordinated analysis of time, space, cost, and people. They are design tasks with a time dimension added. Well-posed problems of this kind assess the student's ability to make the connections needed between different parts of mathematics.	
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	Item Specifications		
	nem specifications		
What	are the implications for instruction?		
Implications fo	or Instruction		
Classroom Lesson:	Identify CCSS content standards and cluster headings		
	feel aligns to the identified standards and cluster headings? If so (Ications: Find the corresponding assessment target(s)		
	What will the evidence of a proficient student look like? e descriptor from the assessment target(s) match? Make adjustments, if needed.		
	s the cognitive process and demand required of the students? ntify the DOK level aligned to the task. Make adjustments if needed		
	:: What task evidence is collected from students? ly identifying types of responses in the scoring rubric. Make adjustments, if needed		
Item Specifications: Sp	Resource for Making Adjustments ecific Smarter Balanced Assessment Target Item Specification		
>			
	Smarter Balanced		
	Smarter Balanced		
	Assessment Consortium: Preliminary Test Blueprints		
	Frommary rest blueprints		
Draft form	November 28, 2012		

Item Specifications	
Interpreting the Item Specifications	

ng the Item 3. 4.	Content & Grade Type of Question a. SR – Selected Response Claim Domain : RP – Ratios and Proportional Relationships
MAT.06.SR.1.000RP.A.181 06 Claim 1: Concepts and I 6. Students can explain and 7	Assessment Target for Grade Level – Target A Internal Number - 181 Claim – C1, C2, C3, or C4
1 A: Understand ratio cond solve problems.	& Target - Found in Math Content Specifications
	ынрь
1, 2 2 SR	
M	
D	
	ample SP scen C1 TA A.181 C1 TA A.181 C1 TA A.181 C1 TA MAT 06 SR 1.000RP.A.181 Odain 1: Concepts and I 6. Students can explain and a carry out mathematical priluency. 1 A: Understand ratio con solve problems. Ratios and Proportional Relation 6.RP.3 1.2 2.3 3.4 3.8 1.1 M

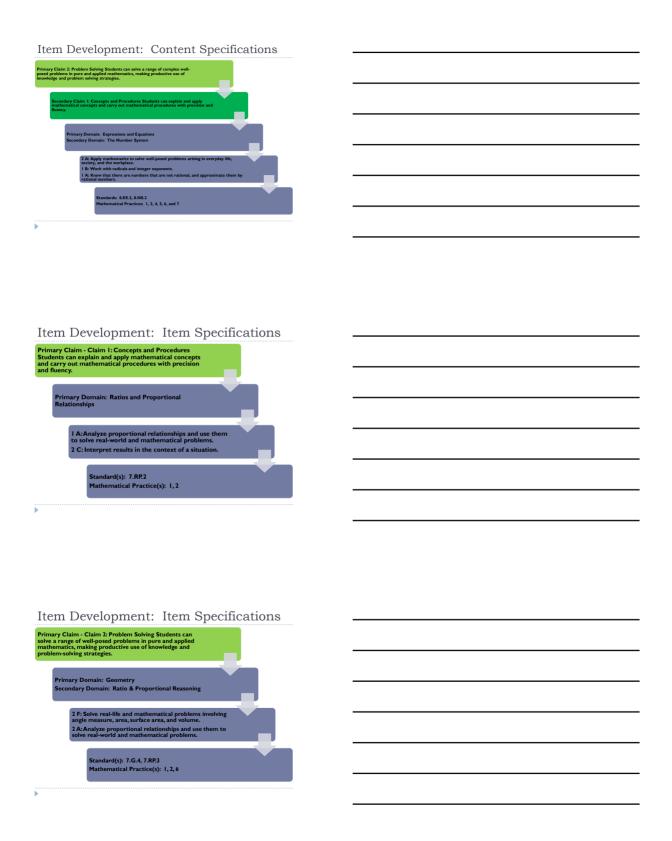
Understanding the Item Specifications

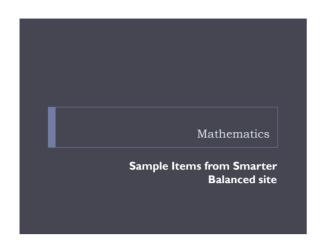


	and the three Considerations	•
Under "Cluster	Assessment Target level headings of the standards in the CCSS-M are	
	der to allow for the creation and use of assessment	
	require proficiency in a broad range of content and	
practices.	Use of more fine-grained descriptions would risk a cy to atomize the content, which might lead to	
	sments that would not meet the intent of the	
	standards." Content Specs., p. 20	
	Students can explain and apply mathematical concepts and carry out mathematical procedures with precision and	
Assessment Target(s):	fluency. 1 A: Understand ratio concepts and use ratio reasoning to	
	solve problems. Ratios and Proportional Relationships	
Standard(s): Mathematical Practice(s):	6.RP.3	
DOK: Item Type:	2	
Score Points:	1	
Difficulty:	D	
Stimulus/Source: Target-Specific Attributes		
(e.g., accessibility issues): Notes:		
Understandi	ng the Item Specifications	
Offacistariai	ing the item opecineations	
	A C	
	Smarter	<u> </u>
Grade 6 Mathematics S	ample SR Item C1 TA Assessment Consortium	
MAT.06.SR.1.000RP	A.181 C1 TA	
Grade:	MAT.06.SR.1.000RP.A.181	
Claim(s):	Claim 1: Concepts and Procedures Students can explain and apply mathematical concepts and	
	carry out mathematical procedures with precision and fluency.	
Assessment Target(s):	A: Understand ratio concepts and use ratio reasoning to	
	solve problems.	
Content Domain:	Ratios and Proportional Relationships	
Content Domain: Standard(s):	Ratios and Proportional Relationships	
Standard(s):	Ratios and Proportional Relationships	
Domain Domains, as found in the	Ratios and Proportional Relationships	
Domain Domains, as found in the CCSS-M, are larger	Ratios and Proportional Relationships 6, RP 1, Z 2 5	
Domain Domains, as found in the	Ratios and Proportional Relationships 6.RP 1, 2 2. M	
Domain Domains, as found in the CCSS-M, are larger groups of related	Ratios and Proportional Relationships 6.RP 1, 2 2. M	
Domain Domains, as found in the CCSS-M, are larger groups of related	Ratios and Proportional Relationships 6.RP 1, 2 2. M	
Domain Domains, as found in the CCSS-M, are larger groups of related	Ratios and Proportional Relationships 6.RP 1, 2 2. M	
Domain Domains, as found in the CCSS-M, are larger groups of related	Ratios and Proportional Relationships 6.RP 1, 2 2. M	
Domain Domains, as found in the CCSS-M, are larger groups of related	Ratios and Proportional Relationships 6.RP 1, 2 2.2 M	
Domain Domains, as found in the CCSS-M, are larger groups of related	Ratios and Proportional Relationships 6.RP 1, 2 2.2 M	
Domain Domains, as found in the CCSS-M, are larger groups of related	Ratios and Proportional Relationships 6.RP 1, 2 2.2 M	
Domain Domains, as found in the CCSS-M, are larger groups of related	Ratios and Proportional Relationships 6.RP 1, 2 2.2 M	
Domain Domains, as found in the CCSS-M, are larger groups of related	Ratios and Proportional Relationships 6.RP 1, 2 2.2 M	
Domain Domains, as found in the CCSS-M, are larger groups of related	Ratios and Proportional Relationships 6.RP 1, 2 2.2 M	
Standard(s): Domain Domains, as found in the CCSS-M, are larger groups of related standards.	Ratios and Proportional Relationships 6.RP 1, 2 2 2 3 M D D	
Standard(s): Domain Domains, as found in the CCSS-M, are larger groups of related standards.	Ratios and Proportional Relationships 6.RP 1, 2 2.2 M	
Standard(s): Domain Domains, as found in the CCSS-M, are larger groups of related standards.	Ratios and Proportional Relationships 6.RP 1, 2 2 3 M D mg the Item Specifications	
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Standard(s): Domain Domains, as found in the CCSS-M, are larger groups of related standards.	ng the Item Specifications spanning the Item Specifications Smarter Balanced	
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Domain Domains, as found in the CCSS-M, are larger groups of related standards. Understandi Grade 6 Mathematics S: MAT.06.SR.1.000RP Sample Item ID: Grade: Claim(s): Assessment Target(s): Content Domain: Standard(s): Mathematical Practice(s): Mathematical Practice(s): OOK:	Ratios and Proportional Relationships 1. 2	
Domain Domains, as found in the CCSS-M, are larger groups of related standards. Understandi Grade 6 Mathematics S: MAT.06.SR.1.000RP Sample Item ID: Grade: Claim(s): Assessment Target(s): Content Domain: Standard(s): Mathematical Practice(s): Difficulty: Score Points: Difficulty:	Ratios and Proportional Relationships 1. 2	
Domain, as found in the CCSS-M, are larger groups of related standards. Understandi Grade 6 Mathematics S: MAT.06.SR.1.000RP Sample Item ID: Content Domain: Standard(s): Mathematical Practice(s): Mathematical Practice(s): Mathematical Practice(s): Standard(s):	Ratios and Proportional Relationships 1. 2	
Domain Domains, as found in the CCSS-M, are larger groups of related standards. Understandi Grade 6 Mathematics S: MAT.06.SR.1.000RP Sample Item ID: Grade: Claim(s): Sample Item ID: Grade: Claim(s): Sample Item ID: Grade: Claim(s): Simple Item ID: Simple Item ID: Grade: Grade: Grade: Claim(s): Simple Item ID: Grade: Grade	Ratios and Proportional Relationships On RP In Proportional Relationships In Proportional Relationships In Proportional Relationships Assessment Consortium A. 181 C1 TA MAT.OG. SR. I. 1000RP.A. 181 OG Claim 1: Concepts and Procedures Students can explain and apply mathematical concepts and carry out mathematical procedures with precision and I A: Understand ratio concepts and use ratio reasoning to solve problems. Ratios and Proportional Relationships On Relationsh	
Domain, as found in the CCSS-M, are larger groups of related standards. Understandi Grade 6 Mathematics S: MAT.06.SR.1.000RP Sample Item ID: Content Domain: Standard(s): Mathematical Practice(s): Mathematical Practice(s): Mathematical Practice(s): Standard(s):	Ratios and Proportional Relationships 1, 2	
Domain, as found in the CCSS-M, are larger groups of related standards. Understandi Grade 6 Mathematics S. MAT.06.SR.1.000RP Sample Item ID: Grade: Claim(s): Assessment Target(s): Content Domain: Standard(s): Mathematical Practice(s): Mathematical Practice(s): Joint Content Domain: Standard(s): Standard(s): Grade: Grade: Content Domain: Standard(s): Grade: Gra	Ratios and Proportional Relationships On RP In Proportional Relationships In Proportional Relationships In Proportional Relationships Assessment Consortium A. 181 C1 TA MAT.OG. SR. I. 1000RP.A. 181 OG Claim 1: Concepts and Procedures Students can explain and apply mathematical concepts and carry out mathematical procedures with precision and I A: Understand ratio concepts and use ratio reasoning to solve problems. Ratios and Proportional Relationships On Relationsh	

Understanding the Item Specifications	
A Committee	
Standards for Mathematical Practice ed	
Grade "Describe varieties of expertise that mathematics educators	
MAT.0 at all levels should seek to develop in their students." CCSS-M pp. 6-8	
11 рр. 6-6	
Make sense of problems & persevere in solving them.	
2. Reason abstractly and quantitatively.	
Assessment Target(s): 1 A: Understand ratio concepts and use ratio reasoning to	
solve problems. Content Domain: Ratios and Proportional Relationships	
Content Domain: Ratios and Propositional Relationships Standard(s): 6.RP.3 Mathematical Practice(s): 1, 2	
DOK: 2 Item Type: SR	
Score Points: 1	
Difficulty: M Key: D	
Stimulus/Source:	
Target-Specific Attributes (e.g., accessibility issues); Notes:	
1900.05	
	
Understanding the Item Specifications	
Officerstanding the rem opecineations	
Smarter	
Grade 6 Mathematics Sample SR Item C1 TA Assessment Consortium	
MAT.06.SR.1.000RP.A.181 C1 TA	
Sample Item ID: MAT.06.SR.1.000RP.A.181	
Grade: 06 Claim(s): Claim 1: Concepts and Procedures	
Students can explain and apply mathematical concepts and	
Selected Response As - Includes computer-enhanced items	
As - Includes computer-enhanced items - Distractors are chosen to embody common misconceptions	
Designed to make sure that students do not obtain correct	
Mathe answers because of test-taking skills	
Score points: 1 Difficulty: M	
Key: D Stimulus/Source:	
Target-Specific Attributes (e.g., accessibility issues):	
Notes:	
4 4 4	
Understanding the Item Specifications	
▲ Smarter	
Balanced	
Grade 6 Mathematics Sample SR Item C1 TA Assessment Consortium	
MAT.06.SR.1.000RP.A.181 C1 TA	
Sample Item ID: MAT.06.SR.1.000RP.A.181 Grade: 06	
Claim(s): Claim 1: Concepts and Procedures Students can explain and apply mathematical concepts and	
carry out mathematical procedures with precision and fluency.	
Assessment Target(s): 1 A: Understand ratio concepts and use ratio reasoning to	
solve problems. Content Domain: Ratios and Proportional Relationships	
Standard(s): 6.RP.3 Mathematical Practice(s): 1, 2	
DOK: 2	
Score Points: 1 Difficulty: M Pange of Difficulty	
Rey: D	
Stimulus/Source: Estimation until pilot	
(e.g., accessibility issues): assessment occurs. Notes:	
1 Tarabata	

Under	rstanding the Iten	n Specifications	<u>-</u>	
		Smarter Balanced		
	athematics Sample SR Item C1 TA	A Assessment Consortium	_	
MAT.06.S	R.1.000RP.A.181 C1 TA ample Item ID: MAT.06.SR.1.000RP.A.	181		
	Grade: 06 Claim(s): Claim 1: Concepts ar	nd Procedures	_	
	carry out mathematica fluency.	nd apply mathematical concepts and I procedures with precision and		
Assessn	nent Target(s): 1 A: Understand ratio		_	
Kov - (S and Proportiona 3 Correct Answer	I Relationships		
ikey = (CorrectAliswer		_	
-	Score Points: 1 Difficulty: M			
St	key: D imulus/Source:		_	
(e.g., acces	ecific Attributes sibility issues): Notes:		_	
-	No.co.			
			_	
Under	rstanding the Iten	n Specifications	_	
		Smarter	_	
Grade 6 Ma	athematics Sample SR Item C1 TA	Assessment Consortium		
	R.1.000RP.A.181 C1 TA ample Item ID: MAT.06.SR.1.000RP.A.			
	Grade: 06 Claim(s): Claim 1: Concepts as Students can explain a		_	
	carry out mathematica	Depth of Knowledge The cognitive rigor that a stude	ent	
Assessn	nent Target(s): 1 A: Understand ratio solve problems.	needs to bring to the item/task,	, as	
Co	ontent Domain: Ratios and Proportiona Standard(s): 6.RP.3	determined by the Cognitive Rigor Matrix, Math Content		
Mathemati	ical Practice(s): 1/2 DOK:	Specifications, Appendix C, p. 9		
-	Item Type: SR Score Points: 1 Difficulty: M			
St	Key: D imulus/Source:			
Target-Spe	ecific Attributes sibility issues):		_	
	Notes:			
			_	
			_	
Item D	evelopment: Conte	PRIMARILY	_	
		Selected Response Constructed Response		
Clains	Canacata & Duagadous	Extended Response SECONDARILY		
Claim #I	Concepts & Procedure "Students can explain and apply	Doufoumones Tooks	_	
<i>"</i> '	and carry out mathematical proc	Constructed Response		
Claim	Problem Solving	Extended Response Performance	-	
#2	"Students can solve a range of co			
	and applied mathematics, making pr problem solving strategies."	oductive use of knowledge and	_	
Claim		ning		
#3	Communicating Reaso "Students can clearly and precisely			
77.5	support their own reasoning and to		_	
Claim	Modeling and Data	alysis		
#4	"Students can analyze complex, rea	I-world scenarios and can construct	_	
-	and use mathematical models to in-	ter pret and solve problems.		





Math - Selected Response

Grade 6 Mathematics Sample SR Item C1 TA



Sample Item ID:	MAT.06.SR.1.000RP.A.181
Grade:	06
Claim(s):	Students can explain and apply mathematical concepts and carry out mathematical procedures with precision and fluency.
Assessment Target(s):	 A: Understand ratio concepts and use ratio reasoning to solve problems.
Content Domain:	Ratios and Proportional Relationships
Standard(s):	
Mathematical Practice(s):	1, 2
DOK:	
Item Type:	SR
Score Points:	1
Difficulty:	M
Key:	D
Stimulus/Source:	
Target-Specific Attributes (e.g., accessibility issues):	
Notes:	

Math — Selected Response Selected Response Includes computer-enhanced items Includes computer-enhanced items Distractors are chosen to embody common misconceptions Designed to make sure that students do not obtain correct answers because of test-taking skills Claim(s): Claim 1: Concepts and students can explain and carry out mathematical princepts. Assessment Target(s): 1.2 Depth of knowledge Content Domain: Ratios and Proportions - sclationships Standard(s): 6.8P.3. Content Domain: Ratios and Proportions - sclationships Standard(s): 1.2 DoK: 2 Rem Type: SR Score Points: 1 Difficulty: D Stimulus/Source: 1 Target-Spotific Attributes (e.g., accessibility issues): Notes:

In art class, Marvin painted tiles to use for a project. For every 5 tiles he painted blue, he painted 8 tiles green.

Identify the equivalent ratio(s) of blue tiles to green tiles. Select all that apply.

- A 20:23
- B 40:25
- © 50:800
- D 60:96

Key and Distractor Analysis

- A. Thought that any difference of 3 is equivalent.
 B. Reversed the ratio (green to blue)
 C. Saw the 5 and 8 and didn't pay attention to the place value
 D. Key

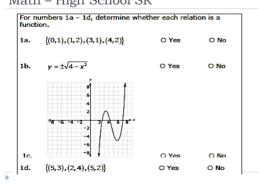
Math - High School SR

HS Mathematics Sample SR Item C1 TK



Sample Item ID:	MAT.HS.SR.1.00FIF.K.082	
Grade:		
Claim(s):		dures
(5).	Students can explain and apply carry out mathematical procedu fluency.	mathematical concepts an
Assessment Target(s):	1 K: Understand the concept o notation.	Multiple Answer
Content Domain:	Functions	Item
Standard(s):	F-IF.1	icciii
Mathematical Practice(s):	4, 6	
DOK:	2	
Item Type:	SR	
Score Points:	1	
Difficulty:	м 🛎	
Key:	YNYN	
Stimulus/Source:		
Target-specific attributes		
(e.g., accessibility issues):		
Notes:	Multi-Answer Item	

Math - High School SR



Math - High School SR

Key and Distractor Analysis:

1a. Y {(0,1),(1,2),(3,1),(4,2)}

All x-coordinates are unique, so it meets the definition of a function.

1b. N $y = \pm \sqrt{4 - x^2}$

An input of x=1 has two corresponding outputs, $y=\sqrt{3}$ and $y=-\sqrt{3}$, so it fails to meet the definition of a function.

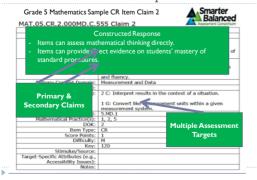
1c. Y This is a function since for each value chosen along the x-axis, there is exactly one y-value on the graph that corresponds to it.

1d. N This is not a function since the input of 5 has two corresponding output values, 3

Math - Constructed Response

Grade 5 Mathematics San	nple CR Item Claim 2			
MAT.05.CR.2.000MD.C.5	555 Claim 2 Assessment Consortium			
Sample Item ID: MAT.05.CR.2.000MD.C.555				
Grade:				
Primary Claim:				
	Students can solve a range of well-posed problems in pure and applied mathematics, making productive use of knowledge and problem-solving strategies.			
Secondary Claim(s):				
	Students can explain and apply mathematical concepts			
	and carry out mathematical procedures with precision and fluency.			
Primary Content Domain:	Measurement and Data			
Secondary Content Domain(s):				
Assessment Target(s):	2 C: Interpret results in the context of a situation.			
	,			
	1 G: Convert like measurement units within a given			
	measurement system.			
Standard(s):				
Mathematical Practice(s):				
DOK:	2			
Item Type:	CR			
Score Points:	1			
Difficulty:	M 120			
Key: Stimulus/Source:	120			
Target-Specific Attributes (e.g.,				
Accessibility Issues):				

Math - Constructed Response



Math – Constructed Response	
Shelbi needs wooden boards to build a platform. Each board	
is shaped like a rectangular prism and has a length of 2 meters, a height of 40 millimeters, and a width of 100 millimeters, as shown below.	
100 mm	
<u> </u>	
Math – Constructed Response	
To build the platform, Shelbi will place the boards side by side, as shown in this diagram. The platform will have a total	
width of 12 meters.	
2 m	
What is the least number of boards that Shelbi needs to build the platform?	
Boards	
Math – Extended Response	
Grade 7 Mathematics Sample ER Item MAT 17 EP 3 000 EP 1 156 MAT 17 EP 3 000 EP 1 156	
Sample Rem ID: IMAT.O7.ER.3.000EE.D.156 Grade: 07 Claim 3: Communicating Reasoning Primary Claim: Primary Claim:	
critique the reasoning of others. Claim 1: Concepts and Procedures Secondary Claim(s): and interpret and curry out mathematical concepts and interpret and curry out mathematical procedures	
Primary Content Domain: Expressions and Equations Secondary Content Domain(s): The Number System 3 A: Text propositions or conjectures with specific examples. Assessment Target(s): 10: Solve real-life and mathematical problems using	
Assessment Target(s): Solver real-life and mathematical problems using numerical and abuthant capressions and equations. Mathematical Practice(s): 7, E. S. J. E. L. J. N.S. J. D. D. D. S. J. E. L. J. N.S. J. S. J. E. L. J. N.S. J. S. J. E. L. J. N.S. J. S. J. E. J. J. E. L. J. N.S. J. S. J. E. J. J. E. J. J. S. J. J. J. S. J. J. J. S. J. J. J. S. J.	
Score Points: 3	
Difficulty: IM Key: See Sample Top-Score Response. Stimulus/Source: Target-Specific Attributes (e.g., accessibility issues): Notes: Part of PT set; some of the task can be AI scored.	

Math – Extended Response	
nematics Sample ER Item Multiple 3.000EE.D.156 Multiple 3.000EE.D.156	
Claims, Domains, - Items require a more solid demonstration of conceptual Assessment Targets,	
Standards and Mathematical Practices Text Domain: text Domains (extract Domains (extract Domains)) Extended Response Course with specific Extended Response Course with specific	
ment Target(s) Tasks matical problems using stons and squattons. Hathermetical Practice(s) Application	
Explanation Explanation Size Size	
accessibility issues); Part of PT set; some of the task can be AI scored. Notes: Part of PT set; some of the task can be AI scored.	
Math – Extended Response	
Renee, Susan, and Martha will share the cost to rent a vacation house for a week. • Renee will pay 40% of the cost.	
Susan will pay 0.35 of the cost. Martha will pay the remainder of the cost. Part A Part A	
$\label{lem:market} \begin{tabular}{ll} Martha that she will pay - of the cost. Is Martha correct? Use mathematics to justify your answer. \end{tabular}$	
Part B The cost to rent a vacation house for a week is \$850. How much will Renee, Susan, and Martha each pay to rent this house for a week?	
Renee will pay \$ Susan will pay \$ Martha will pay \$	
)	
Extended Response: Scoring Rubric	
 Responses to this item will receive 0-3 points, based on the following: 3 points: The student shows a thorough understanding of how solving a real- 	
world problem can lead to flawed reasoning. The student shows a thorough understanding of solving a real-world problem involving numeric expressions with rational numbers. This is shown by the student indicating that Martha is incorrect with justification and correctly calculates the amount each person pays.	
 2 points: The student shows good understanding of solving a real-world problem involving numeric expressions with rational numbers. The student recognizes that Martha will not pay 113 of the cost, but makes a minor error in showing the calculations to support the response to Part A. This error is then consistently applied in responding to Part B. 	
I point: The student shows limited understanding of solving a real-world problem involving numeric expressions with rational numbers. The student can correctly calulate Renee's and/or Susan's portion of the trip, but other parts of the response are incorrect.	
• O points: The student shows inconsistent or no understanding of how solving a real-world problem can lead to flawed reasoning or how to solve a real-world problem involving numeric expressions with rational numbers. Simply claiming that Martha's portion of the trip rental is not equal to 1/3 is not sufficient to earn	
any points.	

Math – Technology Enhanced	
▲ Smarter	
Grade 7 Mathematics Sample TE Item Assessment Consortium	
MAT.07.TE.1.000RP.A.287 Sample Rem ID: MAT.07.TE.1.000RP.A.287 Grade: 07	
Claim 1: Concepts and Procedures Students can explain and apply mathematical concepts and carry out mathematical procedures with precision and	
fluency. 1 A: Analyze proportional relationships and use them to solve real-world and mathematical problems.	
Content Domain: Ratios and Proportional Relationships Standard(s): 7.8P.2 Mathematical Protice(s): 2, 4, 5 DOK: 2	
Item Type: TE	
Key: Graph of y=2x Stimulus/Source: Target-Specific Attributes (e.g., accessibility issues):	
Notes: TE Template: Single Line	
у	
8 7 7	-
The value of y is	
proportional to the value of x.The constant	
of proportionality for this relationship is 2.	
On the grid below,	
graph this proportional relationship.	
-7 -8	
[Create two points by clicking on the intersections of the gridlines.	
When you create the second point, a line will automatically be drawn through the two points. If you make a mistake, use the Clear button to	
begin again.]	
Scoring	
Key and Distractor Analysis: Student must select two of these points: (-4, -8), (-3, -6), (-2, -4),	
(-1, -2), (0, 0), (1, 2), (2, 4), (3, 6), (4, 8).	
> Scoring Rule: Based on the scoring rule, students that	
create a line with y-intercept (0, 0) and slope of 2 will	
receive I point. All other lines will receive 0 points.	

Math - Technology Enhanced

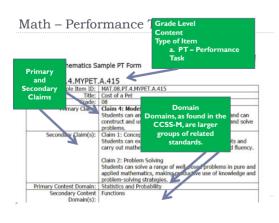


Math - Performance Task

Grade 8 Mathematics Sample PT Form



Sample Item ID:	MAT.08.PT.4.MYPET.A.415
Title:	Cost of a Pet
Grade:	08
Primary Claim:	Claim 4: Modeling and Data Analysis Students can analyze complex, real-world scenarios and can construct and use mathematical models to interpret and solve problems.
Secondary Claim(s):	Claim 1: Concepts and Procedures Students can explain and apply mathematical concepts and carry out mathematical procedures with precision and fluency.
	Claim 2: Problem Solving Students can solve a range of well-posed problems in pure and applied mathematics, making productive use of knowledge and problem-solving strategies.
Primary Content Domain:	Statistics and Probability
Secondary Content Domain(s):	Functions



Math – Performance Task

1	Assessment Target(s):	4 A: Apply mathematics to solve problems arising in everyday life, society, and the workplace.
		C: Understand the connections between proportional relationships, lines, and linear equations.
		1 F: Use functions to model relationships between quantities.
Assessment T	arget (s)	D (Gr 7): Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
	3 ()	A (Gr 6): Understand ratio concepts and use ratio reasoning to solve problems.
Multiple Cluster Level Headings	D (Gr 5): Perform operations with multi-digit whole numbers and with decimals to hundredths.	
	2 B: Select and use appropriate tools strategically.	
	2 C: Interpret results in the context of a situation.	
		B: Construct, autonomously, chains of reasoning to justify mathematical models used, interpretations made, and solutions proposed for a complex problem.
		4 D: Interpret results in the context of a situation.
		E: Analyze the adequacy of and make improvements to an existing model or develop a mathematical model of a real phenomenon,
		F: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flowcharts, or formulas).
		4 G: Identify, analyze and synthesize relevant external resources to pose or solve problems.

Math - Performance Task

Standard(s):	8.EE.6, 8.F.4, 7.EE.3,	6.RP.2, 5.NBT.7
Mathematical Practice(s):	1, 2, 4, 5, 6	
DOK:	4	
Item Type:	PT	
Score Points:	11	
Difficulty:	M	Multiple Standards
How this task addresses	The student must use	to
the "sufficient evidence"	estimate the costs to a	Standards from previous (will
for this claim:		
	representation of data	, and generalizations using algebra.
Target-Specific Attributes		be necessary for students who have
(e.g., accessibility issues):	visual challenges.	
		to enable students to create a circle
	graph, bar graph, or li	ne graph.
Stimulus/Source:	www.petsmart.com	
Notes:	Multi-part task	

Math – Performance Task

Score Points:	11
Difficulty:	M
How this task addresses the "sufficient evidence" for this claim:	The student must use information derived from research to estimate the costs to adopt and maintain a pot. This work will be supported by the use of calculations, graphical representation of data, and generalizations using algebra.
Target-Specific Attributes (e.g., accessibility issues):	Accommodations may be necessary for students who have visual challenges. Technology is needed to enable students to create a circle graph, bar graph, or line graph.
Stimulus/Source:	www.petsmart.com
Notes:	Multi-part task
Task Overview:	Prework: In groups or as a whole class, students brainstorm what Items are needed to maintain a pet over time. Day 1: With partners, students decide which type of pet they want to adopt. Students use as est of movedor Web shiets of the control to be shieted to the control to
Teacher Preparation / Resource Requirements:	Teacher preparation: The day before the administration of the task, there is prework that is designed to encourage students to begin thinking about the upcoming task. The prework involves a class brainstorming session and discussion. The remainder of the task involves a group assignment for one day followed by scored portions of the task on the second day.

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Math – Performance Task	
Cost of Owning and Caring for a Pet	
Part A	
Enter the list of pet items and costs you created yesterday,	
ncluding the initial cost to buy or adopt your pet. Based on your research, estimate the cost of adopting and	-
maintaining a pet (dog, cat, hamster, parakeet) for one year.	
You may click on the links to the Web pages you looked at	
yesterday to help you revise or adjust your list in order to determine the cost for an entire year.	
determine the cost for an entire year.	
Math – Performance Task	
Part B What do you estimate the cost of adopting and maintaining	
a pet (dog, cat, hamster, parakeet) for one year is?	
	-
Provide a thorough explanation below that proves you have	
chought of <u>all</u> the costs associated with owning your choice of pet. Be sure to account for all one-time costs, as well as	
recurring costs and the frequency of those costs.	
Adjust your total above if needed.	
Math – Performance Task	
Next, support your answer by using the line graph tool to create a line graph	
that shows the months of the year and the total amount of money you have spent on your pet through the end of each month. Your graph should show	
now the amount of money you have spent increases over time	
x-minimum 0 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
x-scale 2	
y-maximum 0 g l l l l l l l l l l l l l l l l l l	
y-scale 10	
Data Points:	
Label	
Click to add a data point	

14 1 D 6	
Math – Performance Task	
Part C	
Estimate the cost of maintaining your pet (dog, cat, hamster, parakeet) for one additional year after the first.	
F	
Again, provide a thorough explanation below that proves	
you have thought of <u>all</u> the costs associated with owning your choice of pet for one <i>additional</i> year.	
your choice of pector one additional year.	
>	
Math – Performance Task	
Part D	
Write a linear equation that best fits the total cost of	-
adopting and maintaining your pet for a given number of months. Assume that your pet will not need to go to the	
veterinarian throughout this time.	
Equation:	
Explain how you created your model equation. Be sure to	-
describe what the variables represent and how you	
determined the slope and intercept for your equation.	
>	<u></u>
	_
Item Alignment Practice	
100111 1 211 9 211 11 11 11 11 11 11 11 11 11 11 11 11	
Smarter Balanced Item	
Smarter balanced item	

0	D - 1	1 1	T4
Smarter	Bа	lanced	Item

Hisaki is making sugar cookies for a school bake sale. He has $3\frac{1}{2}$ cups of sugar. The recipe calls for $\frac{3}{4}$ cup of sugar for one batch of cookies. Which equation can be used to find b, the total number of batches of sugar cookies Hisaki can make? $\boxed{A} \quad 3\frac{1}{2} \times \frac{3}{4} = b$

 $\boxed{\mathbb{D}} \quad 3\frac{1}{2} - b = \frac{3}{4}$

 $3\frac{1}{2}$ cups of sugar. The recipe calls for $\frac{3}{4}$ cup of sugar for one Item Specification $\boxed{A} \quad 3\frac{1}{2} \times \frac{3}{4} = b$ (B) $3\frac{1}{2} + \frac{3}{4} = b$ Grade 6 Mathematics Sample SR Item C1 TB \bigcirc $3\frac{1}{2} + b = \frac{3}{4}$ | Inequalities | Ineq

 $3\frac{1}{2}$ cups of sugar. The recipe calls for $\frac{3}{4}$ cup of sugar for one batch of cookies. Which equation can be used to find b, the Item Specification Grade 6 Mathematics Sample SR Item C1 TB $^{\left(\stackrel{\circ}{\mathbb{B}} \right)}$ $^{3\frac{1}{2}+\frac{3}{4}-b}$ $3\frac{1}{2} + b = \frac{3}{4}$ 6.NS.1: Interpret and compute quotients fractions and solve word problems involving division of fractions by fractions.
 CCSS, p. 42

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Item Specification	Hisaki is making sugar cookies for a school bake sale. He has $3\frac{1}{2}$ cups of sugar. The recipe calls for $\frac{3}{4}$ cup of sugar for one batch of cookies. Which equation can be used to find b , the total number of batches of sugar cookies listaki can make?	
Grade 6 Mathematics Sample SR Item C1 TB	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Sample Item ID: Grade: 06 Claim(s): Claim 1: Concepts an	© $3\frac{1}{2}$, $b = \frac{3}{4}$ © $3\frac{1}{2}$, $b = \frac{3}{4}$ d Procedures d apply mathematical concepts and procedures with precision and	
Assessme 6.EE.6: Use variables to numbers and write expr	represent s by fractions. ressions when auations and	
Cont solving a real-world or no problem; understand the Mathematica can represent an unkno or depending on the	nat a variable pwn number,	
hand, any number in a s Stim Target-Speci (e.g., accessil		
Notes:		
Item Specification	Hisaki is making sugar cookies for a school bake sale. He has $3\frac{1}{2}$ cups of sugar. The recipe calls for $\frac{3}{4}$ cup of sugar for one batch of cookies. Which equation can be used to find b , the	
Grade 6 Mathematics Sample SR Item C1 TB	total number of batches of sugar cookies Hisaki can make? $\frac{3}{2} \times \frac{3}{4} = b$ B $3\frac{1}{2} \times \frac{3}{4} = b$	
Sample Item ID: Grade: 06 Claim(s): Claim 1: Concepts an	© 3½-5-3/4 © 3½-5-3/4 d Procedures d apply mathematical concepts and	
Mathematical Practice I: Make sense of prob	elems and persevere in solving then	n
Mathematical Practice 2: Reason abstractly a	and quantitatively	
Mathematical Practice 2: Reason abstractly a Mathematical Practice(s): 1, 2 DOK: 1 Ren Type: SR	and quantitatively	
Mathematical Practice(e):	and quantitatively	
Mathematical Practice(q):	and quantitatively	
Mathematical Practice(e):	and quantitatively	
Mathematical Practice(e):	and quantitatively	
Mathematical Practice (s): DON: Service SR Score Points: Difficulty: Stimulus/Service Target-Specific Attributes (e.g., accessibility issues): Notes:	Hissaki is making sugar cookies for a school bake sale. He has 3 to 10 t	
Mathematical Practice(e):	Histahi in making sugar coolies for a school bate sale. He has $3\frac{1}{3}\text{caps of sugar. The notice calls for }\frac{2}{3}\text{cap of sugar. The notice calls for }\frac{2}{3}\text{cap of sugar. The notice which equation can be used to find \theta, the state number of betthese of sugar coolies Histahi can make? \frac{1}{3}\frac{1}{2}\frac{2}{3}=0 \frac{3}{2}\frac{2}{3}\frac{2}{3}=0 \frac{3}{3}\frac{2}{3}\frac{2}{3}=0$	
Mathematical Practice(s): 1, 2 DOK: SR Step Sep Sep Sep Sep Sep Sep Sep Sep Sep S	Floatil is making sugar coolies for a school bake sale. He has $3\frac{1}{2} \operatorname{caps} \text{ of sugar. The racipe calls for } \frac{2}{3} \operatorname{cap} \text{ of sugar. The racipe calls for } \frac{2}{3} \operatorname{cap} \text{ of sugar for one batch of coolies. Which equation can be used to find \theta. the static number of batches of sugar coolies Hisaki can make? 0 3\frac{1}{2} \cdot \frac{2}{4} = b 0 2\frac{1}{2} \cdot \frac{2}{4} = b 0 2\frac{1}{2} \cdot \frac{2}{4} = b 0 \frac{1}{2} \cdot \frac{2}{4} = b 0 \frac{1}{2} \cdot \frac{2}{4} = \frac{2}{4}$	
Mathematical Practice(s): 1, 2 DOK: SR Step Sep Sep Sep Sep Sep Sep Sep Sep Sep S	Hisaki is making super coolies for a school bake sale. He has $\frac{3}{2} \text{ caps of super. The recipe calls for } \frac{2}{2} \text{ cap of super. The recipe calls for } \frac{2}{2} \text{ cap of super. The recipe calls for } \frac{3}{2} cap of super for one seatch of coolies. Which equation can be used to find \theta. The world runniber of botheres of super coolies Hisaki can make? $	
Mathematical Practice(s): 1, 2 DON: International Practice(s): SR Second Points: SR Second Points: Stimular Second Points: Stimular Second Points: Target-Specific Arterial (e.g., accessibility Issues): (e.g., accessibility Issues): Rotes: Sample Item (D): Grade: (0.6 Calaim (s): Calaim (s)	Risal is making super cooleies for a school bale sale. He has $3\frac{1}{2}$ caps of super. The raction calls for $\frac{3}{4}$ cap of super. The raction calls for $\frac{3}{4}$ cap of super for one basic of cooleies. Which equation can be used to find b_1 , the stand number of balteries of super cooleies Hassi can make? (a) $\frac{3}{2}, \frac{3}{4} = 0$ (b) $\frac{3}{2}, \frac{3}{4} = 0$ (c) $\frac{3}{2}, \frac{3}{4} = 0$ (d) $\frac{3}{4}, \frac{3}{4} = 0$ (e) $\frac{3}{4}, \frac{3}{4} = 0$ (f) $\frac{3}{4}, \frac{3}{4} = 0$ (f) $\frac{3}{4}, \frac{3}{4} = 0$ (g)	
Mathematical Practice (s): DON: SR Server Penths: Difficulty: Stimulary Target-Specific Attributes (e.g., accessibility issues): Notes: Sample Item ID: Grade 6 Mathematics Sample SR Item CI TB Sample Item ID: Grade: Of the Intercept	Risal is making super cooleies for a school bale sale. He has $3\frac{1}{2}$ caps of super. The raction calls for $\frac{3}{4}$ cap of super. The raction calls for $\frac{3}{4}$ cap of super for one basic of cooleies. Which equation can be used to find b_1 , the stand number of balteries of super cooleies Hassi can make? (a) $\frac{3}{2}, \frac{3}{4} = 0$ (b) $\frac{3}{2}, \frac{3}{4} = 0$ (c) $\frac{3}{2}, \frac{3}{4} = 0$ (d) $\frac{3}{4}, \frac{3}{4} = 0$ (e) $\frac{3}{4}, \frac{3}{4} = 0$ (f) $\frac{3}{4}, \frac{3}{4} = 0$ (f) $\frac{3}{4}, \frac{3}{4} = 0$ (g)	

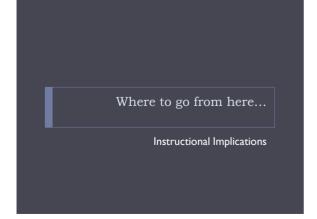
em Specification		Final in mixing sugar coolsies for a school plain sails. We have $\frac{1}{2}$ cup of sugar. The recipie calls for $\frac{2}{4}$ cup of sugar for or stated of coolsies. Which equation can be used to find a 5, the staff uniform of floatines of sugar coolsies final can make? $0 = \frac{1}{2}, \frac{1}{4} = 0$
Sample Item ID:		$3\frac{1}{2} - b = \frac{3}{4}$
Grade:		
Cluster Heading: A	Apply and extend	d apply mathematical concepts and dapply mathematical concepts and previous understandings of ide fractions by fractions.
Cluster Heading: A multiplication ar	Apply and extended division to	previous understandings of ide fractions.
Cluster Heading: A multiplication ar	Apply and extended division to	d apply mathematical concepts and previous understandings of ide fractions by fractions.
Cluster Heading: A multiplication and Assessment	Apply and extended division to	d apply mathematical concepts and previous understandings of ide fractions by fractions.
Claim(s): Cluster Heading: Amultiplication ar	Apply and extended division to div CCSS, p. 4	d apply mathematical concepts and previous understandings of ide fractions by fractions.
Claim(s): Cluster Heading: A multiplication ar Assessment DOK: Item Type: Score Points:	Apply and extended division to div CCSS, p. C	d apply mathematical concepts and previous understandings of ide fractions by fractions.
Claim(s): Cluster Heading: Amultiplication and Assessment DOK: Rem Type:	students can explain ar Apply and extend and division to div CCSS, p. 4 Target B – Conter	d apply mathematical concepts and previous understandings of ide fractions by fractions.
Claim(e): Cluster Heading: A multiplication ar Assessment DOK: Item Type: Score Points: Dofficulty:	students can explain at Apply and extend division to div CCSS, p. 4 Target B - Conter	d apply mathematical concepts and previous understandings of ide fractions by fractions.
Claim(a): Cluster Heading: A multiplication ar Assessment DOK: Rem Type: Sociology: Cliculty: Exercises	students can explain at Apply and extend division to div CCSS, p. 4 Target B - Conter	d apply mathematical concepts and previous understandings of ide fractions by fractions.
Claim(a): Cluster Heading: A multiplication ar Assessment DOK Rem Type: Score Points: Difficulty: Stimblus/Source:	students can explain at Apply and extend division to div CCSS, p. 4 Target B - Conter	d apply mathematical concepts and previous understandings of ide fractions by fractions.

Item Specification

Grade 6 Mathematics Sample SR Item C1 TB



Sample Item ID:	MAT.06.SR.1.000NS.B.179
Grade:	
Claim(s):	Claim 1: Concepts and Procedures Students can explain and apply mathematical concepts are carry out mathematical procedures with precision and fluency.
Assessment Target(s):	B: Apply and extend previous understandings of multiplication and division to divide fractions by fractions. F: Reason about and solve one-variable equations and inequalities.
Content Domain:	The Number System
Standard(s):	6.NS.1, 6.EE.6
Mathematical Practice(s):	1, 2
DOK:	1
Item Type:	SR
Score Points:	1
Difficulty:	L
Kev:	В
Stimulus/Source:	
Target-Specific Attributes	
(e.g., accessibility issues):	
Notes:	



Next Steps	
T.	
Become more familiar with the item specifications and the sample items.	
 Begin using the item specifications and sample items when adjusting current activities, lessons, or units to meet the rigor 	
of the CCSS.	
Visit the websites provided to view further sample items.	
>	
Evaluation	
 Please complete a survey on your experience in participating in Connecting the CCSS-M and Smarter 	
Balanced Assessment, Implications for Instruction: Part II.	
 You feedback is greatly appreciated and is used to make adjustments in future trainings! 	
adjaca nona m jacano a ammigo.	
To access the survey, please visit, https://www.surveymonkey.com/s/CCSSMSBA	
nepsin www.sarvejmoneej.com/s/ Coost-155/	
Thank you for taking time out of your busy schedule to participate in today's webinar!	
>	
Future Module	
Tutaro Module	
CIAllitanani Cantant Charles and	
► ELA/Literacy Content Specifications and Related Documents	
Related Documents	
Presented by:	
Diann Roberts — ELA/Literacy Coordinator Nancy Thomas Price — Formative & Interim Assessment	
Coordinator	
P	

Questions	
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>	